

JEFFREY HORN

never stop learning

curriculum vitae

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👨‍💻 Jeff has instructed or built software for nearly a decade. His unique background makes him a preferred partner for full-stack training products with your team. As a former scientist, his systematic approach to teaching modern full-stack development gives his learners a broad historical context and well-defined conceptual foundation with which to build successful careers not only now, but well into the future. His unique personality blends with a narrative instructional style to produce memorable training experiences for learners of any seniority.

Jeff is a subject-matter expert in full-stack web application development with Talent Path. He is delighted to collaborate with an innovative education startup that shares his values and mission to change lives. From how the web works to detailed patterns across the stack and best practices, Jeff enjoys instructing with live code, working examples, and visual diagrams.

Jeff earned his graduate degree in economics from George Mason University and his undergraduate degree in the same from North Carolina State University. After traveling full-time for a year, he's proud to call himself a Texan and Houstonian. Jeff lives with his partner, Alix, and a beautiful, neurotic bulldog/Weimaraner mix named "Xena." He collects old technology and would love to tell you why he loves paper!

Jeffrey Horn

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OBJECTIVE

I have taught or developed software for the better part of a decade. I'm tired of compromising one passion for the other. My ideal role is a leadership role that sets me on the path to becoming a solutions architect. I'm a skilled, empathetic communicator. My experience includes CI/CD and immutable infrastructure, domain-driven design, test-driven development, and practicing agile.

HIGHLIGHTS

Native English 🌐
Limited German 🌐
US citizen 🇺🇸

Recent publication 📄
Mentorship 🧑🏫
Coaching 🏋️

Ruby 🍷👍
JS/TS/Node 🍷👍
Python, Java 🍷👍

FEATURED EXPERIENCE

Unico Labs, LLC, Principal Engineer & Instructor
Sioux Falls, South Dakota Area

August 2018 - Present

Second-year revenue growth of 120%, contract volume doubled. Relationships in health care, technical education, and non-profits. Learned enterprise governance. Taught Java after self-teaching. First experience with Event Streaming, append-only data stores, and copy-on-write everywhere

Liberty Mutual Insurance, Senior Software Developer
Boston, Massachusetts

May 2017 - July 2018 (1 year three months)

Early leader in customer-centric design thinking as part of Liberty's digital transformation initiative. Worked on authentication and security services. First experience with CQRS and hand-rolled dependency injection.

CERTIFICATIONS

Microsoft Certified Professional (1999)

Novell Certified Network Administrator (1999)

Node.js: Deploying Applications (LinkedIn, 2019)

Interactive Animations with CSS and JavaScript (LinkedIn, 2019)

EDUCATION (*Transcripts available upon request*)

 M.S. in Economics, George Mason University
Fairfax, Virginia

2008-2010

Graduate with honors. All but dissertation: continued Ph.D. studies until 2014 but did not advance to candidacy. Fields of study included industrial organization, public choice, law & economics. Active attendee in Philosophy, Politics, & Economics and Interdisciplinary Center for Economic Sciences seminars. Funding from the Institute of Humane Studies and The Mercatus Center.

 B.S. in Economics, North Carolina State University
Raleigh, North Carolina

2004-2008

Graduate summa cum laude, various honor societies, fraternities, and professional organizations. Additional coursework in Philosophy, Math, and the German language. Four-year contributor to student media, including hosting an evening news and talk hour, "Failure to Refrain" on WKNC 88.1 FM.

 Diplomate, Highland School of Technology
Gastonia, North Carolina

2000-2004

Salutatorian, various honors and professional organizations. Coursework in systems and network administration with experience in network installations, router programming, and Windows Server administration. Received Novell and Microsoft certifications before graduating.

KEYWORDS SUMMARY

Python, Ruby, Java, Node, JavaScript, TypeScript, Rails, Django, JSP & Servlets, Express, React, PostgreSQL, Redis, MongoDB, agile philosophy, scrum practice, automated testing, cloud-native architectures with real-time edge communications.

WORK HISTORY

Unico Labs, LLC, Principal Engineer & Instructor
Sioux Falls, South Dakota Area

August 2018 – Present

- ✓ Ruby, Node, Express, SQL, Mongo DB, React, Object-Oriented Analysis & Design, Software Development Lifecycle, REST, World Wide Web, HTTP, the Internet, and introductory computer science
-  Java, JSP & Servlets

Unico Labs is a customer-centric marketing and design firm and professional education company, founded by Jeffrey Horn and Pat DePuydt in 2019. We believe the software industry can grow and change for the better, and we're ready to lead!

We train technical writers and educators at any level in core continuing education competencies. We consult with boot camps, professional, and trade schools to design and implement core curricula. With select partners, we level up developers and make better teams; our carefully guided approach gives developers business superpowers. Whether you represent a traditional higher education institution or plucky startup, we're ready to boost your critical metrics.

We're polyglots and polymaths, that's our unicorn glue! Want one-on-one coaching or mentoring to develop yourself professionally as a product owner or developer? Get in touch!

Liberty Mutual Insurance, Senior Software Engineer
Boston, Massachusetts

May 2017 - July 2018 (1 year three months)

- ✓ Node, Express, SQL, Redis, Mongo DB, React, HTML, CSS

I kick-started customer-centric development as a member of the first journey team in consumer applications under Liberty's Agile Transformation initiative. I built solutions by testing hypotheses in well-designed quantitative experiments.

I worked closely with UX and Product teams to build solutions that meet real-world needs discovered through user research. My team created an innovative and delightful

onboarding experience for new customers by helping them navigate the process with comfort and speed. We measured our success by increased completion rates, fewer support-center calls, and improved overall NPS.

I built solutions with an eye toward service architecture, and I passionately advocated design patterns. I worked in React on the client, and in Java and Node across a variety of enterprise service areas.

The features I built were well-tested and easily toggled so that our team could learn rapidly from A/B experiments while minimizing risk to our customers.

General Assembly, Lead Instructor

Boston, Massachusetts

September 2014 - May 2017 (2 years nine months)

✓ HTML, CSS, SQL, NoSQL, Ruby, Node, JavaScript

I taught an immersive (full-time) web development course that covered the full stack: Ruby, Rails, JavaScript, Node, Backbone, Angular, Ember, HTML, CSS, and SQL. I worked with students to plan, model, and debug full-stack projects with a one-week turnaround.

I was responsible for improving the quality of instructional materials through an iterative, agile process. I planned cohorts, weeks, and days of instruction as sprints. I facilitated communication among team members with diverse experiences, recorded and distributed decisions reached by consensus.

I worked closely with management to develop new initiatives to improve instructor happiness and retention.

Ankura, Consultant

District of Columbia

January 2014 - September 2014 (9 months)

✓ Ruby on Rails, Ruby, PostgreSQL, Datomic, XML, JSON, REST, WSDL, jQuery, knockout

Formerly Analysis Research Planning Corporation (ARPC), in association with Entropy Zero. I developed software that supported mass tort settlement agreements using Ruby, Rails, and MySQL.

Our products supported Web APIs, interfaced with Microsoft Excel, and generated PDF reports. I created an implicit validations module that read database constraints and injected matching application-level validations at runtime.

I developed a dual-database solution that supported auditing and versioning requirements of legal data. We used metaprogramming techniques to fit this solution seamlessly into the Rails framework and our typical development process.

George Mason University, Graduate Lecturer & Consultant

Arlington, Virginia

May 2012 – January 2014 (1 year nine months)

✓ LaTeX, HTML, CSS, Python, Ansible, Linux, Emacs, Vim, Stata

With funding from the Interdisciplinary Center for Economic Science, I developed a customer relationship management and appointment scheduling system to support recruiting candidates for economics experiments.

I created a web scraper to support my research when an API was unavailable, increasing my mastery of the document object model and my data analysis skills. I was employed as a full-time, enrolled student with the official title of Research Assistant to Dr. Daniel Houser.

I taught a variety of economics courses, including introductory and advanced topics. Some critical areas of expertise are in game theory, strategic decision-making, behavioral economics, political science, statistical analysis (with Stata), advanced mathematics, business strategy, price theory, and philosophy.

Hood College, Visiting Instructor

Frederick, Maryland

(1 year one month)

✓ HTML, CSS, JavaScript, LaTeX, R

I taught graduate business courses and undergraduate economics courses. Notable areas of expertise include game theory, strategic decision-making, behavioral economics, statistical analysis (with R and Stata), business strategy, price theory, and environmental policy.

The Mercatus Center at George Mason University, Research Assistant

Arlington, Virginia

(11 months)

✓ HTML, CSS, JavaScript, LaTeX

I authored and maintained professors' websites using a mixture of HTML & CSS, LaTeX, and JavaScript in addition to teaching occasional lectures, tutoring a minimum of ten hours per week, and maintaining a full, nine-hour graduate course load.

WRITING

 [@jrhorn424](https://twitter.com/jrhorn424)

 ["Behavior-Driven Development with Ruby on Rails API"](#)

 ["Abstraction, Concretion, and Modeling in JavaScript"](#)

 ["SOLID Principles of Object-Oriented Design with Ruby"](#)

I want to obtain a position that rewards technical writing and content creation.

DEVELOPMENT

 github.com/jrhorn424

I want to obtain a position that rewards open source contributions.

TALKS

 ["Components & Abstraction," Boston Ember](#)

I want to obtain a position with a professional development budget and 20% time.

PUBLICATIONS

 ["'Give less but give smart': Experimental evidence on the effects of public information about quality on giving," Luigi Butera and Jeffrey Horn](#)

Journal of Economic Behavior & Organization, Volume 171, March 2020, Pages 59-76.

<https://doi.org/10.1016/j.jebo.2020.01.011>

NOT-FOR-PROFIT WORK

Strongbacks LDRC, Vice President and Founder
Everett, Massachusetts

August 2017 – Present (2 years seven months)

Along with my friend and co-founder, John Whelan, I raise money to support underprivileged youths pursuing careers in professional trades. We ride motorcycles long distance to engage the community in changing cultural and social norms surrounding trade work.

HONORS & SOCIETIES

Delta Upsilon International Fraternity, Ancient Free & Accepted Masons of North Carolina

TESTIMONIALS

✨ "Indeed, there is no question in my mind that Jeff is a CTO in the making." – Jason Potteiger, Customer Success Director, Decibel Insight

👉 "Jeff has shown a tremendous ability to use his existing skills as well as learn specifics of a client's domain while building software to solve a complex business problem." - Dave Bock, VP Engineering, Decisiv Inc.

👤 "He has a ton of patience and creative problem-solving skills, and he uses them when working with both people and code." - Jen Weber, Engineer, Cardstack

💛 "It's often difficult to find someone who not only has superior technical skills but has the people skills that are so critical for high-functioning teams. Jeff is one of the few who has both." – Michael Soltow, Full Stack Developer, REPAY

🍕 "Jeff has a SOLID understanding of object-oriented programming. He hosted lunch-and-learns on software engineering topics, creating connections beyond his team." - Michael Ericson, Senior Software Engineer, Liberty Mutual Insurance

REFERENCES

Patrick O'Neill, Senior Scrum Master, Liberty Mutual Insurance
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Jeffrey Horn

accolades

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